

# PMDLine M30 compact: time of flight technology and IO-Link



Photoelectric sensor with PMD technology, easily and quickly configurable

- Compact housing length of only 70mm
- Convenient setting of all parameters via IO-Link 1.1
- Long range of 30 mm up to 2,000 mm
- High protection rating IP 69K enables applications with high requirements
- Versions with laser protection class 1 or 2 available



## Time of flight technology as standard sensor

The OID with time of flight technology (PMD = Photonic Mixer Device) combines the following advantages: Long range, reliable background suppression, visible red light, high excess gain and all that also combined with either laser class 1 or 2. In the same price range as standard sensors, it is a clever alternative.

## IO-Link for easy parameter setting

The switch point can be easily set via a controller or a PC. Unintentional maladjustment directly on the sensor is thus excluded and increases the protection against tampering. The laser beam can be switched off via IO-Link or pin 5 on the M12 connector.

## Any surface and any mounting position

Shiny, matt, dark or light objects of any colour: The OID features reliable background suppression and allows any angle of incidence and thus flexible mounting positions. This simplifies installation and saves costs.



# Position sensors

Laser sensors / distance measurement sensors



Measuring range [mm]	Background suppression [m]	Switching frequency [Hz]	Hysteresis [%]	Spot Ø at max. range [mm]	Current consumption [mA]	Laser protection class	Order no.
Photoelectric distance sensor · M12 connector, complementary							PNP
30...2000	...20	11	< 1.5...3*	< 5	< 75	2	OID204
30...2000	...20	11	< 2.5...5*	< 5	< 75	1	OID254

\* at max. range

## Accessories

Type	Description	Order no.
	Angle bracket for type M30, stainless steel	E10737
	Mounting clamp, with end stop for types M30, PC	E11049
	Mounting clamp for types M30, PTB	E10077
	Cube for mounting on an aluminium profile, M10 thread, diecast zinc	E20951
	Memory plug, parameter memory for IO-Link sensors	E30398
	IO-Link interface, current consumption from USB port	E30396
	LINERECORDER SENSOR, software for parameter setting and setting up IO-Link sensors	QA0001

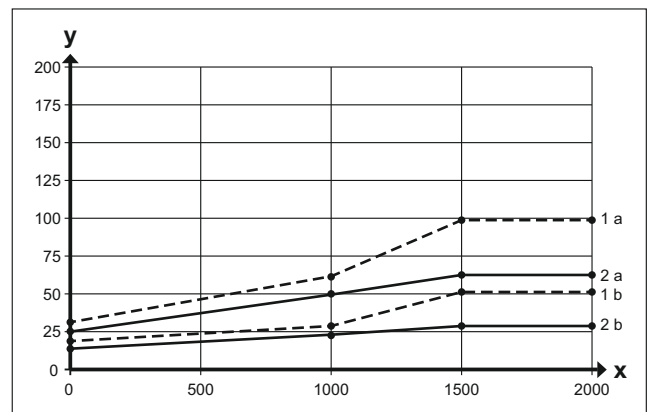
## Connection technology

Type	Description	Order no.
	Socket, M12, 5-pole, 2 m black, PUR cable	EVC073
	Socket, M12, 5-pole, 5 m black, PUR cable	EVC074
	Socket, M12, 5-pole, 5 m black, PVC cable	EVT013

## Common technical data

Type of light	Visible laser light 650 Nm, can be switched off via pin 5 or IO-Link	
Extraneous light on the object [klx]	Max. 8	
Dimensions	M30 x 70 mm	
Operating voltage [V DC]	10...30	
Switching status indication	LED	Yellow
Switch point (set)	via IO-Link 1.1	
Output function	OUT1: NO OUT2: NC	
Current rating [mA]	2 x 100	
Protection rating, protection class	IP 65, IP 67, IP 68, IP 69K III	
Short-circuit protection, pulsed	•	
Reverse polarity protection / overload protection	• / •	
Ambient temperature [°C]	-25...60	
Material	Housing Front pane	Stainless steel PMMA

## Hysteresis



x: Distance in [mm], y: Hysteresis in [mm]

- Background black (6 % remission)
- Background white (90 % remission)

- Laser protection class 1
- Laser protection class 2